## **3B**

- 1.) El Mar (Oriana)
- 2.) FDOT A1A Pine to Terra Mar
- 3.) LBTS Pine Avenue from A1A to El Mar
- 4.) LBTS El Mar Commercial to Pine

## **OCAMPO & ASSOCIATES**



## **OCAMPO & ASSOCIATES**

ARCHITECTURE URBAN DESIGN PLANNING INTERIORS

Plantation, Fl. / Stuart, Fl. 954.424.3443 / 77.286.9004

"A MULTI-DISCIPLINARY"

APPROACH TO DESIGN

Prepared for:
TOWN OF LAUDERDALE BY THE SEA

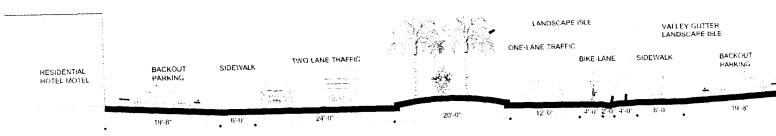
BEAUTIFICATION OF

EL MAR DRIVE

# HEALTHCATION OF BY LACEBURGE BY THE SEA

PROJECT No. 1-09\*3\* JULY, 2009

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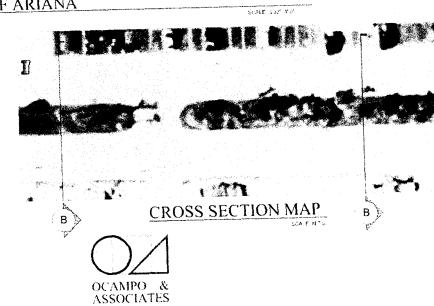


## CROSS SECTION OF ARIANA



STREET VIEW

SCALE N.T.S.



## REVITED OF MINITED TO THE SEV

PROJECT No + 69131 JHLY 2009

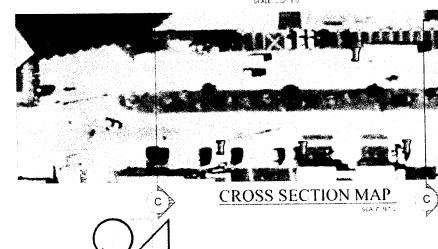
OCAMPO & ASSOCIATES gar arrestrate integration, can thankada detablish process taka interaction of aprilia 5004 1 orb

LANDSCAPE ISLE TWO-LANE TRAFFIC BACKOUT PARKING TWO-LANE TRAFFIC BACKOUT PARKING RESIDENTIAL SIDEWALK SIDEWALK HOTEL MOTEL Value 1 6.0 19'-8'

### TYPICAL CROSS SECTION OF EL MAR DRIVE

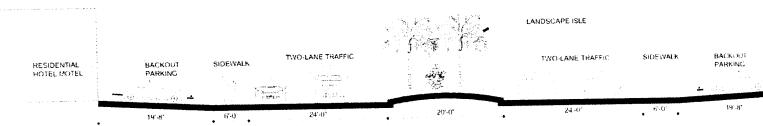


STREET VIEW SCA.F. NT.S.



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PROJECT No. +69131 JULY, 2009

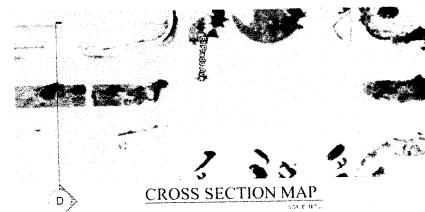


TYPICAL CROSS SECTION OF EL MAR DRIVE



STREET VIEW

SCAUE, N.T.S.



OCAMPO & ASSOCIATES

AND APPLICATIONS OF THE AND STATE OF THE STATE OF STATE O

#### BEAUTIFICATION OF EL MINE DEFINE AT IMPRESSION THE SEA

PROJECT No +89131 JULY, 2699

RESIDENTIAL HOTEL/MOTEL BACKOUT PARKING SIDEWALK TWO-LANE TRAFFIC TWO-LANE TRAFFIC SIDEWALK

19-8\* 6-9\* 24-9\* 20-0\* 24-0\* 39-8\* 19-8\*

### TYPICAL CROSS SECTION OF EL MAR DRIVE



STREET VIEW

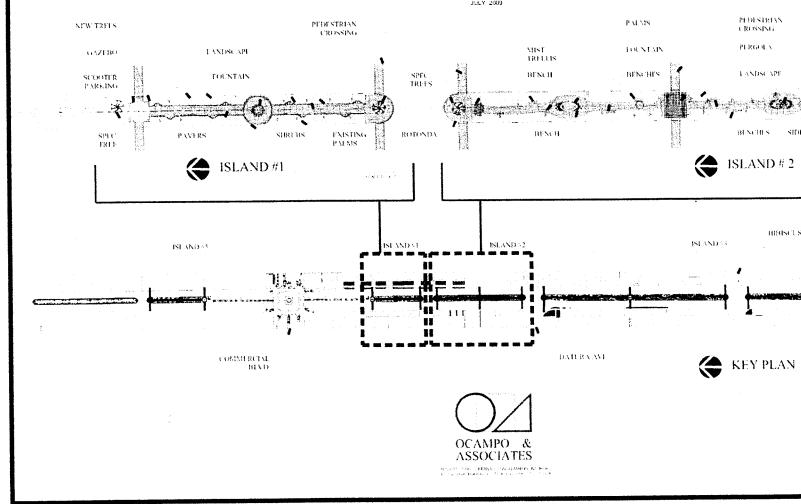
E CROSS SECTION MAP



AND THE STAND THE BALL STANDARD STANDAR

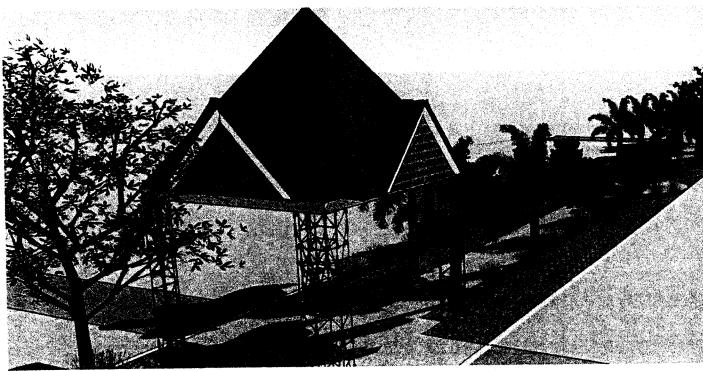
#### HEAUTHFICATION OF EL MAIN DESIGE AT LANDERDALE MY THE MEA

PROJECT No 1-09131



### DEAUTIFICATION OF EL MISER DEVICE AT LAUDERDALE BY THE SEA

PROJECT No 1-09131 JULY 2009





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VIEW ISLA

### BEAUTIFICATION OF EL SZAZE LERILE AT LAUDERBALE BY THE HEA

PROJECT No 1-09131 JULY, 2009



VIEW ISLAND#1



### BEAUTIFICATION OF EL MINE DERIVE AT LAUDERDALE BY THE SEA

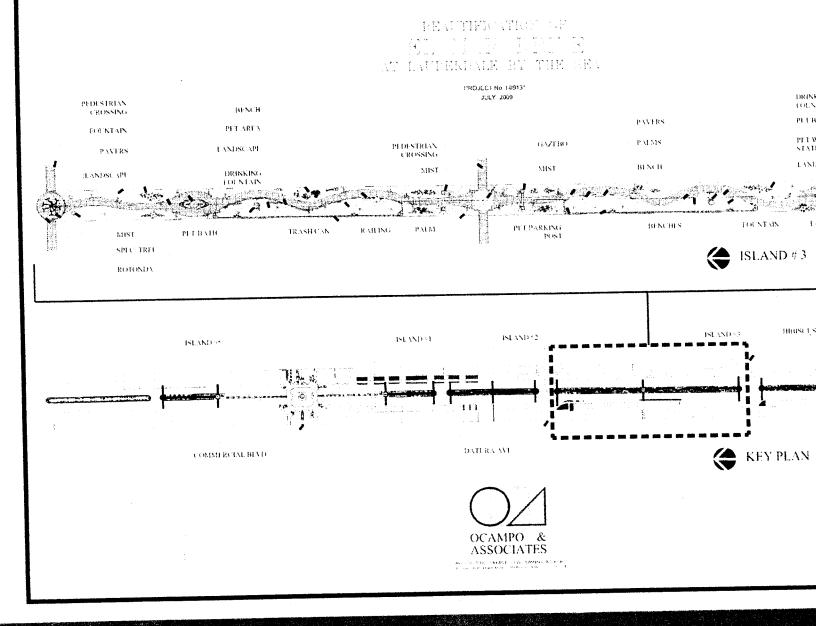
PROJECT No 1-09131 JULY 2009

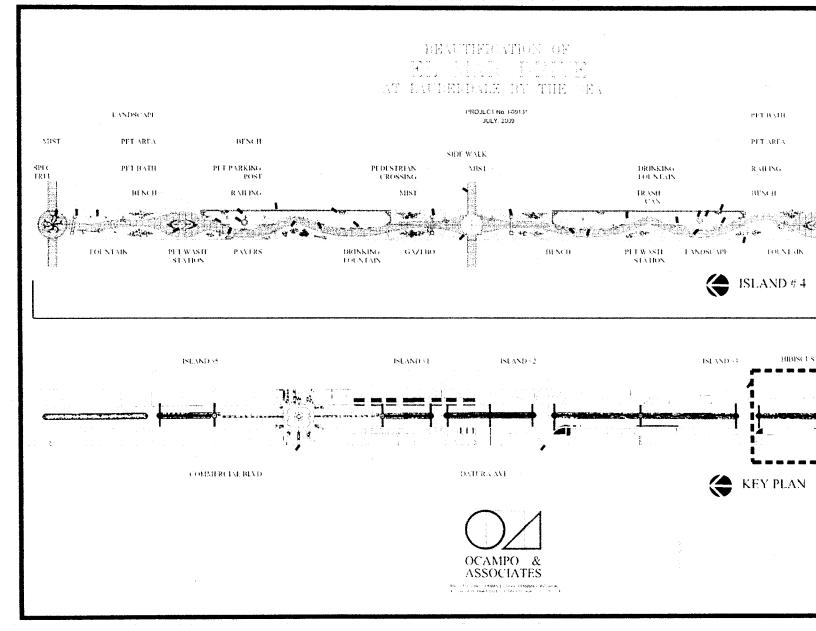


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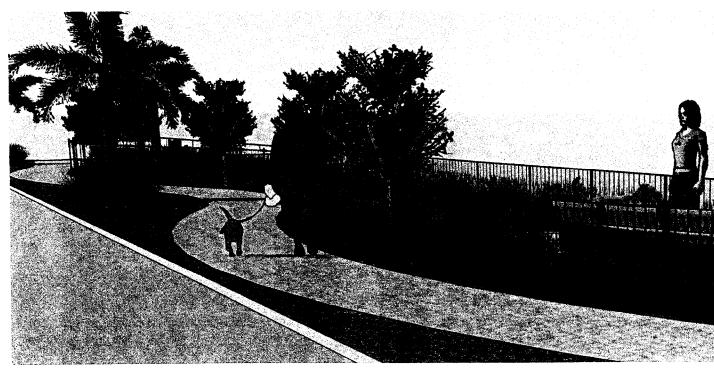
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# BEAUTIFICATION OF BL MAR DRIVE AT LAUDERDALE BY THE SEA

PROJECT No 1-09131 JULY, 2009



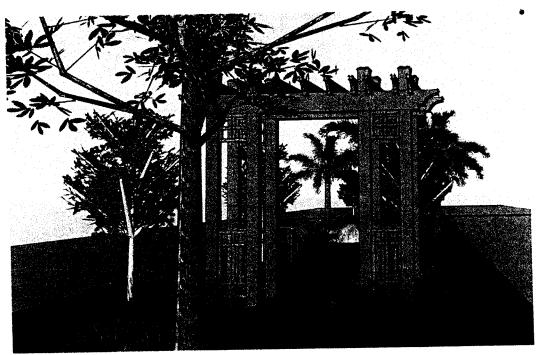
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### BEAUTIFICATION OF EL MAIN DRIVE AT LAUDERDALE BY THE SEA

PROJECT No 1-09131 JULY: 2009



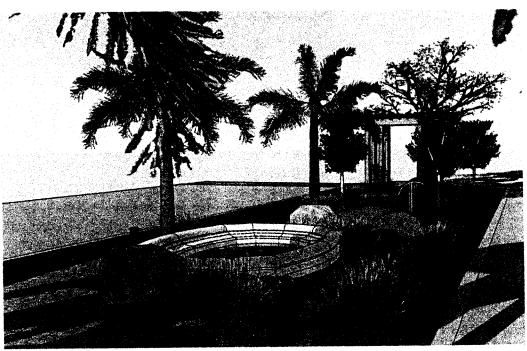
VIEW ISLAND #2



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# BEAUTIFICATION OF EACH FAILE AT LAUDERDALE BY THE SEA

PROJECT No 1-09131 JULY 2009



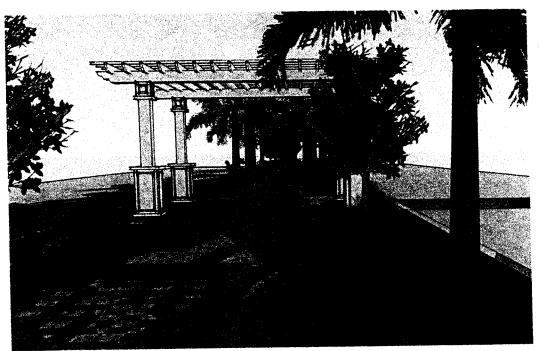
VIEW ISLAND #3



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### BEAUTIFICATION OF EL MAR DRIVE AT LAUDERDALE BY THE SEA

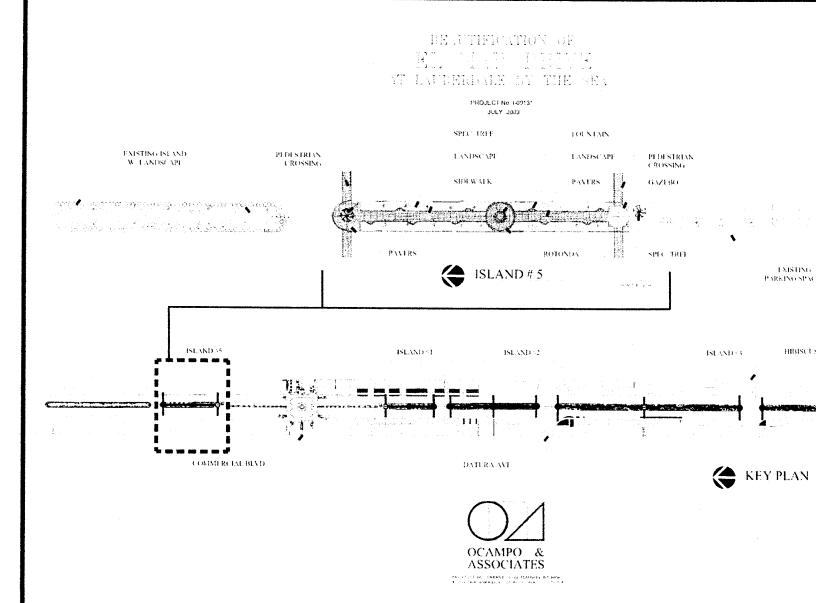
PROJECT No 1-09131 JULY: 2009



VIEW ISLAND #2

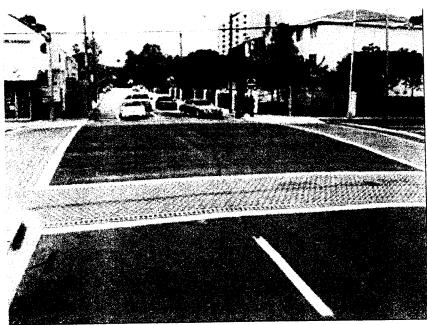


AND HELP THE MEAN CENTER PLANTING STEPPERS.



### REVITERATION OF ELLINE DESCRIPTION OF AT LA DENDALE BY THE SEA

PROJECT No. 1-09131 JULY, 2009



STAMPED ASPHALT CROSSWALK



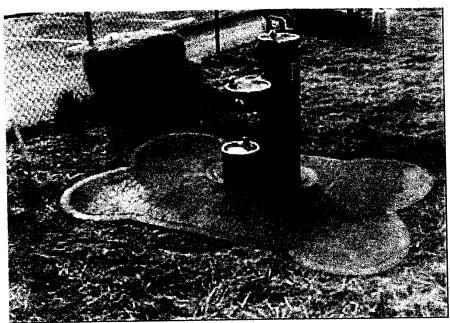
CONCRETE PAVE



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## BENETIFICATION OF EA MINICIPALE EAST LAUDERBALE DA THE SEA

PROJECT No. 1-09\*3\* JULY 2009



DRINKING FOUNTAIN

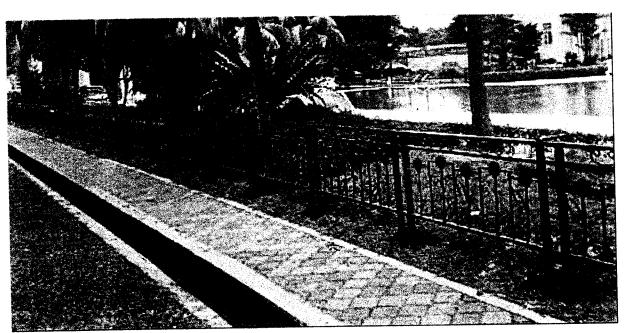


DRINKING FOUN



# AT PARESCOTE BY THE SET DESIGNATION OF

PROJECT No 149131 JULY 2009



RAILING

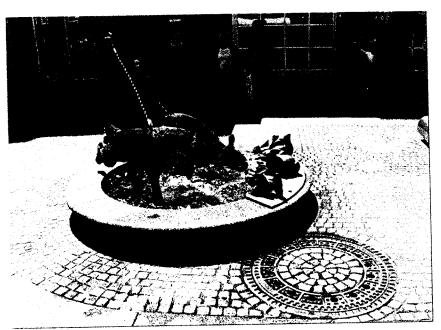


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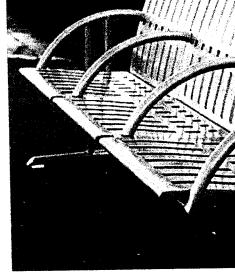
PET PA

### DEAUTIFU ATION OF BLOCKARD DERING AT LAUDERDALE BY THE BEA

PROJECT No. 1-09131 JULY, 2009



PET BATH



**BENCHES** 



### AT LANDERDAKE OF THE SEA BILLIENCATION OF PEALTIFICATION OF

PROJECT No 1-89\*3\* JULY, 2009



MONUMENT SIGN



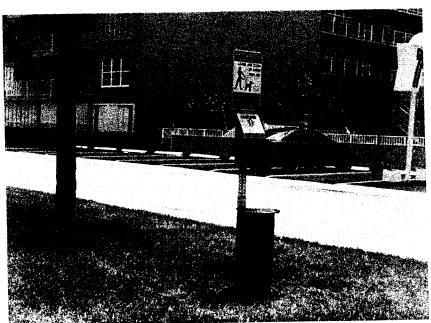
SPRAY MIST TREE



AGUNTE MARK TREATMENT OF ACTION OF THE STATE OF

# BEAUTIFICATION OF EACH TAKEN BY LAUDERDALE BY THE BEAUTIFICATION.

PROJECT No. 1-09131 JULY, 2009



PET WASTE STATION





SOLAR DOWN LIC

## DEAUTIFICATION OF EACH LAUDERDALE BY THE SEA

PROJECT No 149131 JULY 2009



HAD.



RESIDENCE HAR THERM CHAINS FLAZING MICESE LINES AND THE RESIDENCE OF THE HAR THE STATE OF



### BENUTIFICATION OF BLOW BELLEVIALE SEASON AND LANDERDONE BY THE SEASON

PROJECT No. 1-09131 JULY, 2009

LANDSCAPE ISLE

SMALL LANDSCAPE ISLE

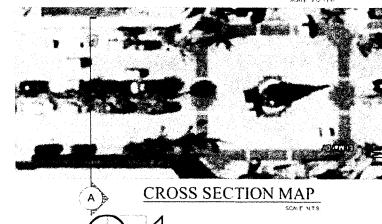
SIDEWALK
PARKING
TWO LANE TRAFFIC
PARKING
PARKING

4:0: 2:0: 4:0: 9:0: 22:0: 9:0: 5:0: 9:0: 22:0: 9:0:

#### CROSS SECTION OF RIGHT OF WAY NEAR COMMERCIAL BLVD.



STREET VIEW



OCAMPO & ASSOCIATES

THE RESIDENCE SHEARING STANDARD RESIDENCE STORAGE STORAGE STANDARD STANDARD

PROJECT NAME:

BEAUTIFICATION OF EL MAR DRIVE

PROJECT ADDRESS: LAUDERDALE BY THE SEA

OWNER:

TOWN OF LBTS 28-Jul-09

DATE: ARCHITECT:

OCAMPO & ASSOCIATES

PM:

EО

SF SITE:

VALUE:

VARIES VARIES

SUMMARY COSTS

AC

COST/LF \$807.64

COST/SF \$40.56

1238 LF OF ISLANDS \$1,000,000

			ISLA	ND 1	IS	LAND 2	isl	AND 3	ISL	AND 4
ITEM DESCRIPTION	UNITC	OST	QTY	COST	QTY	COST	QTY	COST	QTY	cos
100 PAVERS - W/ 10" AGGREGATE BASE	\$10	SF	1570	\$15,700	2,830	\$28,300	4,500	\$45,000	4,500	\$45,0
101 BENCHES	\$1,000	EA	3	\$3,000	6	\$6,000	6	\$6,000	6	\$6,00
102 TRELLIS W/ COOL MIST SYSTEM	\$10,000	EΑ	0	\$0	2	\$20,000	4	\$40,000	4	\$40,0
103 DOGGY BATH/POOL	\$1,000	EA	Ö ,	\$0	0	\$0	2	\$2,000	2	\$2,00
104 DRINKING FOUNTAIN	\$1,200	EA	1	\$1,200	2	\$2,400	4 .	\$4,800	4	\$4,80
105 RAILING	\$35	LF	0	\$0	0	\$0	540	\$18,900	540	\$18,9
106 TURTLE LIGHTING	\$100	EA	20	\$2,000	40	\$4,000	80	\$8,000	80	\$8,00
107 LANSCAPING										
108 TREES	\$200	EA	2	\$400	5	\$1,000	20	\$4,000	20	\$4,00
109 SHRUBS	\$20	LF	460	\$9,200	70	\$1,400	1,100	\$22,000	1,100	\$22,00
110 SOD & MULCH	\$1	SF	1890	\$2,363	2,840	\$3,550	6,470	\$8,088	6,470	\$8,08
111 TREE RELOCATION	\$800	EA	3	\$2,400	4	\$3,200	6	\$4,800	6	\$4,80
112 SCOOTER CHARGING STATION	\$16,000	EA	1	\$16,000	0	\$0	O .	\$0	0	\$0
113 POWER SERVICE (200 AMP)	\$30,000	EA	0	\$0	1	\$30,000	0	\$0	0	\$0
114 WATER DISTRIBUTION	\$20	LF	185	\$3,700	250	\$5,000	600	\$12,000	600	\$12,0
115 MONUMENT SIGN	\$20,000	EA	0	\$0	O	\$0	0	\$0	0	\$0
116 CURBING	\$16	LF	400	\$6,400	630	\$10,080	1,250	\$20,000	1,250	\$20,0
117 WASTE CONTAINER (NORMAL)	\$1,000	EA	1	\$1,000	2	\$2,000	4	\$4,000	4	\$4,00
118 DOGGY WASTE CONTAINER	\$200	EA	1	\$200	2	\$400	4	\$800	4	\$800
119 DOGGY BAG DISPENSER	\$0		0	\$0	0	\$0	0	\$0	0	\$0
120 DOGGY TIE POLE	\$200	EA	1	\$200	2	\$400	4	\$800	4	\$800
121 DRAINAGE & EXFILTRATION TRENCHING	\$100	LF	185	\$18,500	300	\$30,000	602	\$60,200	602	\$60,2
122 IRRIGATION REDISTRIBUTION	\$20	HEAD	180	\$3,600	284	\$5,680	640	\$12,800	540	\$12,8
123 NOT USED										
124 RAMP W/DETECTABLE WARNING	\$650	EA	3	\$1,950	12	\$7,800	12	\$7,800	12	\$7,80
125 STAMPED ASPHALT	\$11	SF	720	<b>\$7,</b> 920	1,020	\$11,220	1,100	\$12,100	1,100	\$12,1
126 FOUNTAIN FEATURE	\$5,000	EA	1	\$5,000	1	\$5,000	1	\$5,000	1	\$5,00
127 LANDSCAPE ROCK FEATURE	\$5,000	EA	0	\$0	1	\$5,000	1	\$5,000	1	\$5,00
128 SPECIMEN TREES	\$3,000	EA	1	\$3,000	2	\$6,000	2	\$6,000	2	\$6,00
129 SHADE STRUCTURE	\$20,000	EΑ	1	\$20,000	1	\$20,000	1	\$20,000	1	\$20,0
130 EXCAVATION & GRADING	\$2	SF	3650	\$6,388	5,990	\$10,483	12,170	\$21,298	12,170	\$21,2
131 PERMITS	\$0	OWNER		\$0	0	\$0	Ō	\$0	0	\$0
132 SURVEY & LAYOUT	\$20,000		0.10	\$2,000	0.20	\$4,000	0.25	\$5,000	0.25	\$5,00
133	SUBTOTAL			\$132,120	4 (14.4)	\$222,913		\$356,385		\$356,3
134 OVERHEAD & PROFIT		15.00%		\$19,818		\$33,437		\$53,458		\$53,4
135 DESIGN FEES (A-E-L)		12.00%		\$15,854		\$26,750		\$42,766		\$42,7
				ISLAND 1		ISLAND 2		ISLAND 3		ISLAN
	TOTALS			<b>\$167,79</b> 2		\$283,099		\$452,609		\$45
	GRAND TO	TAL		\$1,526,442						
		TOTALLE	2000							
		TOTAL SF	20000							
~~~.				4000						

1890

37630

TOTAL LINEAR FEET OF ALL ISLANDS

TOTAL SQUARE FEET OF ALL ISLANDS



## OCAMPO & ASSOCIATES

ARCHITECTURE URBAN DESIGN PLANNING INTERIORS

Plantation, FI. / Stuart, FI. 954.424.3443 / 77.286.9004

"A MULTI-DISCIPLINARY"

APPROACH TO DESIGN

Prepared for: TOWN OF LAUDERDALE BY THE SEA

BEAUTIFICATION OF

EL MAR DRIVE

#### THE ARCHON PARTNERSHIP

417 SW CALIFORNIA AVENUE STUART, FL 34994 772.286.9004 954.424.3443

PROJECT NAME: PROJECT ADDRESS:	BEAUTIFICATION OF		E				SITE: VALUE:	SF VARIES VARIES	AC				
OWNER:	TOWN OF LBTS						VALUE.	VARIES	SU.	MMARY CO	cré	falkeliin synsys	0,420.00
DATE:	28-Jul-09						COST/LF	\$807.64		INITIALL CO	u vil Principle (19	AL PROJECT	COST
ARCHITECT:	OCAMPO & ASSOCI	JATES					COST/SF	\$40.56			Service Self T	\$1,526,442	7.7.
PM:	EO						\$1,000,000		LF OF ISLANDS			31,724,77	
			Maryo	ISt	AND 1	is	LAND 2	451	AND 3	ısı	AND 4	ıc	LAND
ITEM DESCRI		UNIT	1	QTY	COST	QTY	COST	QTY	COST	QTY	COST	OTY	LAND :
00 PAVERS - W/ 10" AGG	REGATE BASE	\$10	SF	1570	\$15,700	2,830	\$28,300	4,500	\$45,000	4,500	\$45,000	1570	\$1
		\$1,000	EA	4 <b>3</b>	\$3,000	6	\$6,000	6	\$6,000	6	\$6,000	3	بر \$
02 TRELLIS W/ COOL MI: 03 DOGGY BATH/POOL	ST SYSTEM	\$10,000	EA	0	\$0	2 ::-	\$20,000	4	\$40,000	4	\$40,000	Ō	1
04 DRINKING FOUNTAIN		\$1,000	EA	0	\$0	O	\$0	2	\$2,000	. 2	\$2,000	0	
05 RAILING		\$1,200	EA	1	\$1,200	2 (	\$2,400	4	\$4,800	4	\$4,800	1	\$
06 TURTLE LIGHTING		\$35	LF .	0	\$0	0	\$0	540	\$18,900	540	\$18,900	0	
07 LANSCAPING		\$100	EA	20	\$2,000	40	\$4,000	80	\$8,000	80	\$8,000	20	\$
08 TREES		****	3		200								
09 SHRUBS		\$200	EA	2	\$400	5	\$1,000	20	\$4,000	20	\$4,000	2	
10 SOD & ML	ווכט	\$20	LF	460	\$9,200	70	\$1,400	1,100	\$22,000	1,100	\$22,000	460	\$
11 TREE RELC		\$1	SF	1890	\$2,363	2,840	\$3,550	6,470	\$8,088	6,470	\$8,088	1890	s
12 SCOOTER CHARGING		\$800	EA	3	\$2,400	4	\$3,200	6	\$4,800	6	\$4,800	3	\$
13 POWER SERVICE (200		\$16,000	EA	. 1	\$16,000	0	\$0	0	\$0	0	\$0	1	\$1
14 WATER DISTRIBUTION		\$30,000	EA	0 .	\$0	1	\$30,000	0	\$0	0	\$0	0	
15 MONUMENT SIGN		\$20	LF	185	\$3,700	250	\$5,000	600	\$12,000	600	\$12,000	185	S
16 CURBING		\$20,000	EA	0	\$0	0	50	0	ŞO	0	\$0	0	
17 WASTE CONTAINER (N	MODAGAL)	\$16	LF	400	\$6,400	630	\$10,080	1,250	\$20,000	1,250	\$20,000	400	\$0
18 DOGGY WASTE CONTA		\$1,000 \$200	EA	1	\$1,000	2	\$2,000	4.	\$4,000	4	\$4,000	1	. \$
19 DOGGY BAG DISPENSE		\$200 \$0	EA	1	\$200	2	\$400	4	\$800	4	\$800	1	
20 DOGGY TIE POLE	,14	\$0 \$200	<b>5</b> A	0	\$0	0	\$0	0	50	0	\$0	0	
21 DRAINAGE & EXFILTRA	ATION TRENCHING	\$100	EA LF	1	\$200	2	\$400	4	\$800	4	\$800	1	
22 IRRIGATION REDISTRIE		\$100	HEAD	185	\$18,500	300	\$30,000	602	\$60,200	602	\$60,200	185	\$1
23 NOT USED	,0110.1	320	HEAU	180	\$3,600	284	\$5,680	640	\$12,800	640	\$12,800	180	. \$
24 RAMP W/DETECTABLE	WARNING	\$650	EA	3	4.244	COMPAGE SHAPE		807-000 m.m., n., n., n. s	econtrol establishment	w			
25 STAMPED ASPHALT	***************************************	\$11	SF	720	\$1,950	12	\$7,800	12	\$7,800	12	\$7,800	3	\$
26 FOUNTAIN FEATURE		\$5.000	100	10 TA 10 10 10 10 10 10 10 10 10 10 10 10 10	\$7,920	1,020	\$11,220	1,100	\$12,100	1,100	\$12,100	720	\$
27 LANDSCAPE ROCK FEA	TURE	\$5,000	EA EA	1	\$5,000	1	\$5,000	. 1	\$5,000	1	\$5,000	1	\$
28 SPECIMEN TREES	TONE	\$3,000	EA EA	0	\$0	1	\$5,000	1	\$5,000	1	\$5,000	0	82
29 SHADE STRUCTURE		\$20,000	EA EA	1	\$3,000	. 2	\$6,000	2	\$6,000	2	\$6,000	1	. \$
30 EXCAVATION & GRADI	ING	\$20,000	SF.	3 C C C C C C C C C C C C C C C C C C C	\$20,000	1	\$20,000	1	\$20,000	1	\$20,000	1	\$
31 PERMITS		\$2 \$0	OWNER	3650	\$6,388	5,990	\$10,483	12,170	\$21,298	12,170	\$21,298	3650	•
32 SURVEY & LAYOUT		\$20,000	OWNER	0.10	\$0	0	50	0	\$0	0	\$0		
33		SUBTOTAL	arren en co	0.10	\$2,000	0.20	\$4,000	0.25	\$5,000	0.25	\$5,000	0.20	
4 OVERHEAD & PROFIT		SUBIUTAL	15.00%		\$132,120		\$222,913		\$356,385		\$356,385		\$:
5 DESIGN FEES (A-E-L)			12.00%	anay	\$19,818	August	\$33,437		\$53,458		\$53,458		\$
			12.00%	3.08 VS 71.11.11.18	\$15,854		\$26,750		\$42,766		\$42,766	May Str	. 5
		TOTALS			ISLAND 1		ISLAND 2		ISLAND 3		ISLAND 4		IŞ
		GRAND TOT	TAI		\$167,792		\$283,099	)	\$452,609	1	\$452,609		
			TOTAL LF	2000	\$1,526,442								
			TOTAL SF										
	TOTAL	INEAR FEET OF		20000									
		QUARE FEET OF			1890								
NOTES:	101712	ZONE FEET OF	ALL ISLAN	ius .	37630								
	CTURE ENGINEERING	Contraction of the contraction o											

## **CHEN & ASSOCIATES**

# budget for two lane roadway design alternative EL MAR DRIVE REDEVELOPMENT



Submitted to:

CHEN

For the Rest of Your Life FLORIDA

Submitted by:





#### Table of Contents

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Budget Costs	2
Conclusions	2
Iwo-Lane Scenario Exhibit	
Cost Estimates ■ Alternate Path Options	
One-Lane Scenario Evhibit	





Background

El Mar Drive is located in the Town of Lauderdale By-The-Sea between State Road A1A and the ocean from Palm Avenue to Pine Avenue. This existing roadway is 4800 feet long (.9 miles) and sits in an 80 foot Town owned right-of-way. The existing roadway is primarily 2 lanes in each direction but merges to one lane in both directions approximately 200 feet before Anglin Square, as well as in front of the newly completed Oriana development.

Chen and Associates (C&A) has been tasked with completing budget estimates for the Commission's consideration in regards to the redevelopment of El Mar Drive. The plan C&A used to create these budgets was based on the three highest scoring student projects and is included at the end of this text. C&A also made the assumption that the limits of the center median area would remain at 20' wide.

C&A prepared a number of cost estimates, all of which are included at the end of this text; however, the important numbers will be highlighted throughout this summary. C&A also considered the \$1 million available for the beautification of El Mar Drive when creating the different phasing options.

**Phasing Options** 

C&A has phased this project assuming two different construction scenarios. The first manor of phasing was to look at redeveloping the center median areas ONLY. Please keep in mind that this is only a conceptual budget and costs for individual items can greatly differ depending on material type, style, etc. This scenario assumes the following, which are based off of the student projects:

- Winding path down the center median area
- Landscaping throughout the entire project area
- Bollard type lighting in the center median area only
- Shade structures located within each landscape island
- A signature piece of art in each landscape Island

These estimates were completed for all of El Mar Drive and then broken up for the north half of the road (Commercial Blvd. to Pine Ave) and the south half of the road (Palm Avenue to Commercial Blvd.)

C&A also considered the complete redevelopment of El Mar Drive from the edge of the right-of-way to the edge of the right-of-way. Please keep in mind that this is only a conceptual budget and costs for individual items can greatly differ depending on material type, style, etc. This scenario assumes the following, which are based off the student projects and roadway cross sections from previous Town Master Plans and projects:

- 6' sidewalks (no trees in sidewalk)
- 2-11' travel lanes in each direction
- New drainage system
- Replacement of Town Owned Sewer (Palm Ave. to Commercial Blvd. only)
- Winding path down the center median area
- Landscaping throughout the entire project area
- Bollard type lighting in the center median area only
- Shade structures located within each landscape island
- A signature piece of art in each landscape Island





**Budget Costs** 

The following is a summary of the budgets completed for this project broken up by the different phasing options. This list will start with the budget for all of El Mar and will be broken down from there by the different phasing options.

	Reconstruct the Entire Right-of-Way (RO)	W)		
Reconstruct th	e entire ROW from Palm to Pine	\$4,511,450		
Reconstruct the entire ROW from Palm to Commercial		\$2,249,069		
	Reconstruct the entire ROW from Palm to Hibiscus	\$834,371		
	Reconstruct the entire ROW from Hibiscus to Datura	\$796,842		
	Reconstruct the entire ROW from Datura to Commercial	\$619,316		
Re con	struct the entire ROW from Commercial to Pine	\$2,253,491		
	Reconstruct the entire ROW from Hibiscus to Datura	\$1,261,033		
	Reconstruct the entire ROW from Datura to Commercial	\$992,458		

	Reconstruct the Center Median Onl	ly
Reconstruct m	nedian only from Palm to Pine	\$2,326,172
Recor	nstruct median only from Palm to Commercial	\$980,497
	Reconstruct median only from Palm to Hibiscus	\$356,981
	Reconstruct median only from Hibiscus to Datura	\$369,664
	Reconstruct median only from Datura to Commercial	\$283,333
Recor	struct median only from Commercial to Pine	\$1,336,803
	Reconstruct median only from Hibiscus to Datura	\$798,060
	Reconstruct median only from Datura to Commercial	\$463,051

#### Conclusion

Chen and Associates (C&A) has been tasked with completing budget estimates for the Commission's consideration in regards to the redevelopment of El Mar Drive. These budget numbers were based on a conceptual plan that was created based off portions of the three winning student design projects as well as previously approved roadway cross sections. Considering that the Town has \$1 million available for the beautification of El Mar Drive, which is dedicated for the south half of the roadway only, Chen and Associates recommends proceeding with detailed design and construction of the median only from Palm Avenue to Commercial Blvd.

### PRELIMINARY ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation





#### El Mar Drive Cost Alternatives Entire ROW - Palm Ave to Pine Ave. Submitted July 24th, 2009 by Chen and Associates

Item	box.								
No.	Description	Qty	Unit	Unit Price	Extended Price				
245		34 (m)	1. 1.	<b>。我找</b> 你	2000年1966年1966年				
1	Design Phase Services*	11	LS		\$ 532,068.38				
	General	12 1	CH2467-975	1 6	the second second				
2	Mobilization & MOT (12% Total Construction Value)	1	LS	•	\$ 425,654.70				
334	Hardscaping / Furniture	2.4	7 10 200	NAME OF STREET					
3	Remove Existing Brick Wall	10	LS	\$ 1,000.00	\$ 10,000.00				
4	6' Colored Concrete Walkway**	4,000	LF	\$ 35.00	\$ 140,000.00				
5	Pergola (Shade Structure)	24	EA	\$ 25,000.00					
6	Bench Seat	48	EA	\$ 350.00	\$ 16,800.00				
_ 7	Trash Can	24	EA	\$ 300.00					
8	Statue / Art Piece('s)	6	EA	\$ 25,000.00					
9	New / Relocate Existing Pet Waste Stations	14	EA	\$ 100.00	\$ 1,400.00				
	Landacaping (Aug. 2007)	17.17	1.00		Trining Control				
	Relocate Existing Trees	261	EA	\$ 300.00	\$ 78,300.00				
	Relocate Existing Shrub/Plants	398	EA	\$ 300.00					
	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	205	EA	\$ 1,350.00					
13	Field Grown Shade Trees (zeriscape, low maint)	165	EA		\$ 107,250.00				
	Shrubbery / Bushes (zeriscacape, low maint)	3,500	EA	\$ 13.00	\$ 45,500.00				
	Ground Cover (zeriscacape, low maint)	2,550	EA	\$ 8.00	\$ 20,400.00				
	Sod	2,532	SY	\$ 9.00	\$ 22,788.00				
17	Earthwork/Regrading	1,551	CY	\$ 2.75	\$ 4,265.25				
	Miscellaneous ::	497 P.	184 (1844)						
	Relocate Irrigation System Controls and Piping	5	LS	\$ 5,000.00	\$ 25,000.00				
	Lighting	107	EA	\$ 2,750.00	\$ 294,250.00				
	Roadway / Sidewalk	1000	11 + 3 14 1		(2) 中国型位数末线				
	Remove Existing Sidewalk	7,400	LF	\$ 6.00	\$ 44,400.00				
	8' Colored Concrete Sidewalk	7,400	LF	\$ 48.00	\$ 355,200.00				
	2' Curb and Gutter	7,400	LF.	\$ 7.00	\$ 51,800.00				
	ADA Ramps	56	EA	\$ 250.00	\$ 14,000.00				
	Roadway Resurfasing	18,150	SY	\$ 7.50	\$ 136,125.00				
25	Striping and Signage	1	LS	\$ 42,106.75	\$ 42,106.75				
		<b>企业的</b>		1 1000	ALL COMMITTEE				
	Catch Basin	41	EA	\$ 3,500.00	\$ 143,500.00				
	Orainage Pipe	5,050	LE L	\$ 45.00	\$ 227,250.00				
	Exfiltration Trench	1,725	LF LF	\$ 150.00	\$ 258,750.00				
	Yard Drain	41	EA	\$ 1,200.00	\$ 49,200.00				
29	Remove Existing Drainage System	6,775	LS		\$ 50,812.50				
		(中)的事		化学 建乳酸	A TOTAL				
	3" PVC Sewer Pipe	1,950	LF		\$ 97,500.00				
	.aterals (Short)	24	EA		\$ 26,400.00				
32	aterals (Long)	14	EA	\$ 1,500.00	\$ 21,000.00				
	Maintenance Access Structures	14	EA	\$ 3,100.00	\$ 43,400.00				
	Roadway Restoration	1,475	SY	\$ 45.00	\$ 66,375.00				
4.7				6 (4/3) 815 7	A CONTRACTOR OF STATE				
111741		* 153 KE 1943	Mar Triberal	Total:	\$ ** # 4,504,846				

Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees
 See Alternate Walkway Options for Additional Materials and their Costs

#### PRELIMINARY ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation





#### El Mar Drive Cost Alternatives Entire ROW - Palm Ave to Commecrial Bvid. Submitted July 24th, 2009 by Chen and Associates

item No.	Description	Qty	Unit	Unit Price	Extended Price
-	Design X		alth Utrani	April 10	· 学教或证明。
1	Design Phase Services*	1	LS		\$ 264,858.08
- 12	General - A	2.46	14.	J. K. W. 1979	
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 211,886.46
7	Hardscaping / Furniture	12.0		Alto Mario	5: 10 (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b
3	Remove Existing Brick Wall	5	LS	\$ 1,000.00	\$ 5,000.00
4	6' Colored Concrete Walkway**	1,850	LF	\$ 35.00	\$ 64,750.00
5	Pergola (Shade Structure)	11	EA	\$ 25,000.00	\$ 275,000.00
6	Bench Seat	22	EA EA	\$ 350.00 \$ 300.00	\$ 7,700.00 \$ 3,300.00
7	Trash Can	11	EA	\$ 300.00 \$ 25,000.00	
8	Statue / Art Piece('s) New / Relocate Existing Pet Waste Stations	<u>3</u>	EA EA	\$ 25,000.00	
9	Landsceping	0	EA	3 100.00	3 600.00
10	Relocate Existing Trees	69	EA	\$ 300.00	
11	Relocate Existing Trees Relocate Existing Shrub/Plants	89	EA	\$ 300.00	
12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	75	EA	\$ 1,350.00	
13	Field Grown Shade Trees (zeriscape, low maint)	70	EA		\$ 45,500.00
14	Shrubbery / Bushes (zeriscacape, low maint)	2,600	EA	\$ 13.00	\$ 33,800.00
	Ground Cover (zeriscacape, low maint)	1,800	EA	\$ 8.00	\$ 14,400.00
	Sod	1,532	SY	\$ 9.00	\$ 13,788.00
	Earthwork/Regrading	1,350	CY		\$ 3,712.50
	Miscellaneous	(A) - (A) (A)	MA SASSAS		Committee of the second
	Relocate Irrigation System Controls and Piping	3	LS	\$ 5,000.00	\$ 15,000.00
19	Lighting	42	EA		\$ 115,500.00
	Roadway / Sidewalk	and the	A STREET WITH		· Portion and State
	Remove Existing Sidewalk	3,500	LF	\$ 6.00	\$ 21,000.00
	8' Colored Concrete Sidewalk	3,500	LF	\$ 48.00	\$ 168,000.00
	2' Curb and Gutter	3,500	LF	\$ 7.00	\$ 24,500.00
	ADA Ramps	34	EA	\$ 250.00	\$ 8,500.00
	Roadway Resurfasing	8,700	SY	\$ 7.50	\$ 65,250.00
25	Striping and Signage	1	LS	\$ 20,107.50	\$ 20,107.50
	Drainege Association of the Communication of the Co	30 F. C.	18.4	C 10 10 10 10 10 10 10 10 10 10 10 10 10	9 / 1 / 3W-24 W-55
	Catch Basin	19	<u>EA</u>	\$ 3,500.00	\$ 66,500.00
	Drainage Pipe	2,800	LF	\$ 45.00	\$ 126,000.00
	Exfiltration Trench	925	<u>LF</u>	\$ 150.00	\$ 138,750.00
	Yard Drain	19	EA LS	\$ 1,200.00 \$ 7.50	\$ 22,800.00 \$ 27,937.50
29	Remove Existing Drainage System	3,725			\$ 27,937.50
367 34	Sewer Replacement		LF		\$ 97,500.00
30	8" PVC Sewer Pipe	1,950 24	EA	\$ 50.00 \$ 1,100.00	\$ 97,500.00 \$ 26,400.00
	Laterals (Short)	14	EA EA	\$ 1,500.00	\$ 26,400.00 \$ 21,000.00
	Laterals (Long)	14	EA EA	\$ 1,500.00	\$ 21,000.00
	Maintenance Access Structures		SY	\$ 3,100.00	\$ 43,400.00 \$ 66,375.00
34	Roadway Restoration	1,475	SY		\$ 05,375.00
1					等有理學的議念。 海拔以其鄉 語傳文學

Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees See Alternate Walkway Options for Additional Materials and their Costs

### PRELIMINARY ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation





## El Mar Drive Cost Alternatives Entire ROW - Palm Ave to Hibiscus Ave Submitted July 24th, 2009 by Chen and Associates

item	Description	Qty	Unit	Unit Price	Extended Price
No.					
2.2	Design # **		A STATE OF THE PARTY OF THE PAR	<b>4</b> 0	The second secon
7	Design Phase Services*	1 1	LS		\$ 98,157.75
-	General ANOT (199) Teach Control of the North Contr			The state of the	70 To 10 To
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 78,526.20
3	Kardecaping / Furniture Remove Existing Brick Wall	2		\$ 1,000.00	
4	6' Colored Concrete Walkway**	650	LS LF	\$ 1,000.00 \$ 35.00	\$ 2,000.00 \$ 22,750.00
5	Pergola (Shade Structure)	4	EA	\$ 25,000.00	
6	Bench Seat	8	EA	\$ 25,000.00	
7	Trash Can	4	ĒĀ	\$ 300.00	
8	Statue / Art Piece('s)	1	EA	\$ 25,000.00	
9	New / Relocate Existing Pet Waste Stations	2	EA	\$ 100.00	
	Landacaping Annual Control Control	100	316.9	<b>V</b>	
10	Relocate Existing Trees	18	EA	\$ 300.00	
11	Relocate Existing Shrub/Plants	7	EA	\$ 300,00	
12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	30	EA	\$ 1,350.00	
13	Field Grown Shade Trees (zeriscape, low maint)	30	EA	\$ 650.00	
14	Shrubbery / Bushes (zeriscacape, low maint)	1,000	EA	\$ 13.00	
15	Ground Cover (zeriscacape, low maint)	750	EA	\$ 8.00	\$ 6,000.00
	Sod	666	SY	\$ 9.00	\$ 5,994.00
17	Earthwork/Regrading	600	CY		\$ 1,650.00
	Miscellaneous 1 %	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4-45-14		Markey Sugar
	Relocate Irrigation System Controls and Piping	1	LS	\$ 5,000.00	\$ 5,000.00
	Lighting	15	EA	\$ 2,750.00	\$ 41,250.00
	Roadway / Sidewalk	the out to	auto estas.		
	Remove Existing Sidewalk	1,300	LF	\$ 6.00	\$ 7,800.00
	8' Colored Concrete Sidewalk	1,300	<u>LF</u>	\$ 48.00	\$ 62,400.00
	2' Curb and Gutter	1,300	LF	\$ 7.00	\$ 9,100.00
	ADA Ramps	12	EA	\$ 250.00	\$ 3,000.00
	Roadway Resurfasing	3,200	SY LS	\$ 7.50 \$ 7.441.00	\$ 24,000.00 \$ 7.441.00
	Striping and Signage  Drainage	- V. (4)	LS		
	Catch Basin	8	EA	\$ 3,500.00	\$ 28,000.00
	Drainage Pipe	1,000	LF	\$ 3,300.00	\$ 45,000.00
	Exfiltration Trench	450	LF	\$ 150.00	\$ 67,500.00
	Yard Drain	8	EA	\$ 1,200,00	\$ 9,600.00
	Remove Existing Drainage System	1,450		\$ 7.50	\$ 10,875.00
	Sawer Replacement	7,430			2 10,070.00
	8" PVC Sewer Pipe	650	LF	\$ 60.00	\$ 39,000.00
	Laterals (Short)	3	EA EA	\$ 1,400.00	\$ 4,200.00
	Laterals (Long)	<del></del>	EA	\$ 1,750.00	\$ 5,250.00
	Maintenance Access Structures	5	EA	\$ 3,100.00	\$ 15,500.00
34	Roadway Restoration	475	SY	\$ 45.00	\$ 21,375.00
exac.	AND LONG THE STREET, THE STREE	Y.A.D.A.Y	44 (77 P. 4	CONTRACT.	A SECURE OF SECURE
44.542		18 W. 18 21	TIN AND THE	Control Total:	

<sup>\*</sup> Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees

<sup>\*\*</sup> See Alternate Walkway Options for Additional Materials and their Costs

#### PRELIMINARY ENGINEER'S OPINION OF

Chen No: 120.001

PROBABLE CONSTRUCTION COST

Preliminary Design Evaluation





#### El Mar Drive Cost Alternatives Entire ROW - Hibiscus Ave to Datura Ave Submitted July 24th, 2009 by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
	Designate Section 1	117770	COST TO LEGIS	A Contract	1 . T
1	Design Phase Services*	1	LS		\$ 93,725.25
130	Gariara	A	34 242 July	Att Care	
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 74,980.20
1100	Hardacaping / Furniture	4.25		1 2 46	
3	Remove Existing Brick Wall	1	LS	\$ 1,000.00	\$ 1,000.00
4	6' Colored Concrete Walkway**	650	LF	\$ 35.00	\$ 22,750.00
5	Pergola (Shade Structure)	4	EA	\$ 25,000.00	\$ 100,000.00
6	Bench Seat	8	EA	\$ 350.00	\$ 2,800.0
7	Trash Can	4	EA	\$ 300.00	
8	Statue / Art Piece('s)	1	EA	\$ 25,000.00	
9	New / Relocate Existing Pet Waste Stations	2	EA_	\$ 100.00	
1	Emater of the second se	A Michigan		AS WALK	
	Relocate Existing Trees	31	EA	\$ 300.00	\$ 9,300.0
11	Relocate Existing Shrub/Plants	7	EA	\$ 300.00	
12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	30	EA	\$ 1,350.00	
	Field Grown Shade Trees (zeriscape, low maint)	30	EA	\$ 650.00	
	Shrubbery / Bushes (zeriscacape, low maint)	1,000	EA		
	Ground Cover (zeriscacape, low maint)	750	EA	\$ 8.00	
	Sod	666	SY	\$ 9.00	
17	Earthwork/Regrading	600	CY	\$ 2.75	<b>\$</b> 1,650.0
	Macallaneous	$f_{ij} \sim f_{ij}^{\mu\nu}$	2-14-17 B 1-16-18	<b>F</b> 1 <b>V</b> 1	
	Relocate Irrigation System Controls and Piping	1	LS	\$ 1,500.00	\$ 1,500.0
19	Lighting	15	EA	\$ 2,750.00	
× 1.00	Roadway / Sidewalk 3 3		14 A M 15 T		A 7000
	Remove Existing Sidewalk	1,300	<u>LF</u>	\$ 6.00	\$ 7,800.00
	8' Colored Concrete Sidewalk	1,300	LF	\$ 48.00	\$ 62,400.00
	2' Curb and Gutter	1,300	<u>LF</u>	\$ 7.00	\$ 9,100.00
	ADA Ramps	12	EA	\$ 250.00	\$ 3,000.00
	Roadway Resurfasing	3,200	SY	\$ 7.50	\$ 24,000.00
25	Striping and Signage	1	<u>LS</u>	\$ 7,441.00	\$ 7,441.00
	Draini (C. 1888)	19:41	the second of		
26	Catch Basin	6	<u>EA</u>	\$ 3,500.00	\$ 21,000.00
	Drainage Pipe	1,000	<u>LF</u>	\$ 45.00	\$ 45,000.00
	Exfiltration Trench	300	LF	\$ 150.00	\$ 45,000.00
	Yard Drain	6	EA	\$ 1,200.00	\$ 7,200.00
29	Remove Existing Drainage System	1,300	LF	\$ 7.50	\$ 9,750.00
	Sewer Replacement	7	31.3		A
1	8" PVC Sewer Pipe	650	LF	\$ 50.00	\$ 32,500.00
	Laterals (Short)	9	EA	\$ 1,100.00	\$ 9,900.00
32	Laterals (Long)	6	EA	\$ 1,500.00	\$ 9,000.00
33	Maintenance Access Structures	5	EA	\$ 3,100.00	\$ 15,500.00
	Roadway Restoration	500	SY	\$ 45.00	\$ 22,500.00
400		Ti lugari	100	4 182	the same of the same

Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees See Alternate Walkway Options for Additional Materials and their Costs

### PRELIMINARY ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Chen No: 120,001

Phase: Preliminary Design Evaluation





# El Mar Drive Cost Alternatives Entire ROW - Datura Ave to Commercial Byld. Submitted July 24th, 2009 by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
10	Design				
1	Design Phase Services*	1	LS		\$ 73,147.58
10.00	Grierali-	2000年	Marie Carlo	de la company	2010 2011
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 58,518.06
100	Hardscaping / Furniture	10.4	18 C 18 18		100
3_	Remove Existing Brick Wall	2	LS	\$ 1,000.00	\$ 2,000.00
4	6' Colored Concrete Walkway**	550	LF	\$ 35.00	\$ 19,250.00
5	Pergola (Shade Structure)	3	EA	\$ 25,000.00	\$ 75,000.00
6_	Bench Seat	6	EA	\$ 350.00	\$ 2,100.00
7	Trash Can	3	EA	\$ 300.00	\$ 900.00
8	Statue / Art Piece('s)	1	EA	\$ 25,000.00	
9	New / Relocate Existing Pet Waste Stations	2	EA	\$ 100.00	
3,000	Landscapings	46576	British Company of the Company of the Company	A 872 W	
	Relocate Existing Trees	20	EA	\$ 300.00	\$ 6,000.00
11	Relocate Existing Shrub/Plants	75	EA	\$ 300.00	\$ 22,500.00
12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	15	EA	\$ 1,350.00	
	Field Grown Shade Trees (zeriscape, low maint)	10	EA	\$ 650.00	
14	Shrubbery / Bushes (zeriscacape, low maint)	600	EA	\$ 13.00	
	Ground Cover (zeriscacape, low maint)	300	EA	\$ 8.00	\$ 2,400.00
16	Sod	200	SY	\$ 9.00	
	Earthwork/Regrading	150	CY	\$ 2.75	\$ 412.50
	Miscellarieous 3.2	4.14		年 " " " " " " " " " " " " " " " " " " "	A STATE OF THE STATE OF
	Relocate Irrigation System Controls and Piping	1	LS	\$ 1,500.00	\$ 1,500.00
	Lighting	12	EA	\$ 2,750.00	\$ 33,000.00
		WEST M	A STATE OF THE PARTY	11 432 119.473	and the second second
20	Remove Existing Sidewalk	900	LF	\$ 6.00	\$ 5,400.00
	8' Colored Concrete Sidewalk	900	LF	\$ 48.00	\$ 43,200.00
	2' Curb and Gutter	900	LF	\$ 7.00	\$ 6,300.00
23	ADA Ramps	10	EA	\$ 250.00	\$ 2,500.00
24	Roadway Resurfasing	2,300	SY	\$ 7.50	\$ 17,250.00
25	Striping and Signage	1	LS	\$ 5,225.50	<b>\$</b> 5,225.50
	Dainere	<b>分为关系。</b>	the Vendor V		i de la marca y la marca de la compansa de la comp
	Catch Basin	5	<u>EA</u>	\$ 3,500.00	\$ 17,500.00
	Drainage Pipe	800	LF	\$ 45.00	\$ 36,000.00
	Exfiltration Trench	175	LF	\$ 150.00	\$ 26,250.00
	Yard Drain	5	<u>EA</u>	\$ 1,200.00	\$ 6,000.00
29	Remove Existing Drainage System	975	LF	\$ 7.50	\$ 7,312.50
	Sewer Replacement	MF NE	inter the contract of	1.00	
	3" PVC Sewer Pipe	650	LF	\$ 50.00	\$ 32,500.00
	aterals (Short)	12	EA		\$ 13,200.00
	aterals (Long)	5	EA	\$ 1,500.00	\$ 7,500.00
	Maintenance Access Structures	4	EA	\$ 3,100.00	\$ 12,400.00
	Roadway Restoration	500	SY	\$ 45.00	\$ 22,500.00
<b>沙沙水</b>		147.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44.7	United States
<b>*********</b>		SGN JYES		Total:	\$

Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees
 See Alternate Walkway Options for Additional Materials and their Costs

#### PRELIMINARY ENGINEER'S OPINION OF

PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation





## El Mar Drive Cost Alternatives Entire ROW - Commercial Bvld. to Pine Submitted July 24th, 2009 by Chen and Associates

<b></b>	by Cherrand Associates							
Item No.	Description	Qty	Unit	Unit Price	Extended Price			
-20		4 1	SAME DAY	No. 3 -2	2021			
1_1_	Design Phase Services*	1	L.S		\$ 266,160.30			
	Gineal	100	1 F 6 5	4 (42)	STATE OF THE STATE OF			
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 212,928.24			
<b>E</b> . E.	Rereaceolno / Eurofture	100		W. Carlo				
3	Remove Existing Brick Wall	5	LS	\$ 1,000.00	\$ 5,000.00			
4	6' Colored Concrete Walkway**	2,150	LF	\$ 35.00	\$ 75,250.00			
5	Pergola (Shade Structure)	13	EA	\$ 25,000.00	\$ 325,000.00			
6	Bench Seat	26	EA	\$ 350.00	\$ 9,100.00			
7	Trash Can	13	EA	\$ 300.00				
8	Statue / Art Piece('s)	3	EA	\$ 25,000.00				
9	New / Relocate Existing Pet Waste Stations	8	EA	\$ 100.00				
	'andecaping to the second seco	200	1.200 -		ewall are district.			
10	Relocate Existing Trees	192	EA	\$ 300.00	\$ 57,600.00			
11	Relocate Existing Shrub/Plants	309	EA	\$ 300.00				
12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	130	EA	\$ 1,350.00				
13	Field Grown Shade Trees (zeriscape, low maint)	95	EA	\$ 650.00	\$ 61,750.00			
14	Shrubbery / Bushes (zeriscacape, low maint)	900	EA	\$ 13.00	\$ 11,700.00			
15	Ground Cover (zeriscacape, low maint)	750	EA	\$ 8.00	\$ 6,000.00			
	Sod	1,000	SY	\$ 9.00	\$ 9,000.00			
17	Earthwork/Regrading	201	CY	\$ 2.75	\$ 552.75			
小有機	Migcellanecus	1446	Maria Trans	175.000	THE WAY SHELL THE			
18	Relocate Irrigation System Controls and Piping	2	LS	\$ 1,500.00				
19_	Lighting	65	EA	\$ 2,750.00				
	Roadway/Sidewalk & www.	6,4126	$x_0$	COLUMN TO SERVE	Janes - Carrette			
20	Remove Existing Sidewalk	3,900	LF	\$ 6.00	\$ 23,400.00			
21	8' Colored Concrete Sidewalk	3,900	LF	\$ 48.00	\$ 187,200.00			
	2' Curb and Gutter	3,900	LF	\$ 7.00	\$ 27,300.00			
	ADA Ramps	22	EA	\$ 250.00	\$ 5,500.00			
24	Roadway Resurfasing	9,450	SY	\$ 7.50	\$ 70,875.00			
25	Striping and Signage	1	LS	\$ 21,999.25	\$ 21,999.25			
	Drainage	53 AL W.	30 100 100 100	in the state of	Part of the Part of the Part			
	Catch Basin	22	EA	\$ 3,500.00	\$ 77,000.00			
27	Drainage Pipe	2,250	LF	\$ 45.00	\$ 101,250.00			
28	Exfiltration Trench	800	LF		\$ 120,000.00			
	Yard Drain	22	EA	\$ 1,200.00	\$ 26,400.00			
29	Remove Existing Drainage System	3,050	LS	\$ 7.50	\$ 22,875.00			
14.24			**************************************	Section 1988	March and Associated			
		10.00	Ber Ber Grant Life in	Total:	\$			
		The second refere	A STATE OF THE PARTY OF THE PAR	C - C - C   100 C - C - C - C - C - C - C - C - C - C	7.7.			

Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees
 See Alternate Walkway Options for Additional Materials and their Costs

Note: Sewer Not included because it is owned by the City of Pompano Beach

#### PRELIMINARY ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation

By: SB



#### El Mar Drive Cost Alternatives Entire ROW - Commercial Bvld. to Washingtonia Submitted July 24th, 2009 by Chen and Associates

item No.	Description	Qty	Unit	Unit Price	Extended Price
44 8 64	Design	1.98 5.99	( <del>1</del> )	4.0	22) 121.14 1133
1	Design Phase Services*	1	LS		\$ 148,940,89
	Control	A 56 1 2 4	4.00	11.7	
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 119,152.71
79	Hardsdaping / Furniture	at the state	14 (4.00 m)	1 1 1 1	
3	Remove Existing Brick Wall	3	LS	\$ 1,000.00	\$ 3,000.00
4	6' Colored Concrete Walkway**	1,350	LF	\$ 35.00	\$ 47,250.00
5	Pergola (Shade Structure)	8	EA	\$ 25,000.00	
6	Bench Seat	16	EA	\$ 350.00	\$ 5,600.00
7	Trash Can	8	EA	\$ 300.00	
	Statue / Art Piece('s)	2	EA	\$ 25,000.00	\$ 50,000.00
9	New / Relocate Existing Pet Waste Stations	6	EA	\$ 100.00	\$ 600.00
	Landacaping November 1997	1 to breat	all and published the	111111111111	
10	Relocate Existing Trees	150	EA	\$ 300.00	
11	Relocate Existing Shrub/Plants	300	EA	\$ 300.00	
12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	50	EA	\$ 1,350.00	
13	Field Grown Shade Trees (zeriscape, low maint)	15	EA	\$ 650.00	\$ 9,750.00
14	Shrubbery / Bushes (zeriscacape, low maint)	50	EA		\$ 650.00
	Ground Cover (zeriscacape, low maint)	150	EA	\$ 8.00	\$ 1,200,00
	Sod	500	SY	\$ 9.00	\$ 4,500.00
	Earthwork/Regrading	1	CY	\$ 2.75	\$ 2.75
(P)		114	AND STATE	11.00	Control of the Asset
	Relocate Irrigation System Controls and Piping	1	LS	\$ 1,500,00	\$ 1,500.00
19	Lighting	45	EA		\$ 123,750.00
1.50	Roadway / Sidewalk	1.1			and the survey of the first
	Remove Existing Sidewalk	2,200	LF	\$ 6.00	\$ 13,200.00
	8' Colored Concrete Sidewalk	2,200	LF	\$ 48.00	\$ 105,600.00
	2' Curb and Gutter	2,200	LF	\$ 7.00	\$ 15,400.00
	ADA Ramps	12	EA	\$ 250.00	\$ 3,000.00
	Roadway Resurfasing	5.300	SY	\$ 7.50	\$ 39,750.00
	Striping and Signage	1	LS	\$ 12,386,50	\$ 12,386.50
	Orainage and Communication of the Communication of	1. 17 ct /	200 S. W. W.		(4.2°)
	Catch Basin	12	EA	\$ 3,500.00	\$ 42,000.00
	Orainage Pipe	900	LF	\$ 45.00	\$ 40,500.00
	Exfiltration Trench	300	LF I	\$ 150.00	\$ 45,000.00
	Yard Drain	12	EA EA	\$ 1,200.00	\$ 14,400.00
	Remove Existing Drainage System	1,200	LF LF	\$ 7.50	\$ 9,000.00
	Tomovo exosting brainings orbitoni	1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200			9,000.00
	en de regionalista de la companya d				

Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees

See Alternate Walkway Options for Additional Materials and their Costs

Note: Sewer Not included because it is owned by the City of Pompano Beach

#### PRELIMINARY ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation





#### El Mar Drive Cost Alternatives Entire ROW -Washingtonia Ave. to Pine Ave. Submitted July 24th, 2009 by Chen and Associates

Belocate Existing Trees		by Chen an	a Assoc	ates		
Design Phase Services	No.					
Centers   Company   Comp	4		, P. C.		THE PARTY OF	
Mobilization & MOT (12% Total Construction Value)   1			1			
	7		11200	and the state of t	10 <b>7 2</b> (4)	
Remove Existing Brick Wall   2			1			\$ 93,775.53
4 6'Colored Concrete Walkway**  5 Pergola (Shade Structure)  5 EA \$ 25,000.00 \$ 125,000.00  6 Bench Seat  10 EA \$ 350.00 \$ 3,500.00  7 Trash Can  5 EA \$ 300.00 \$ 1,500.00  8 Statue / Art Piece('s)  1 EA \$ 25,000.00  9 New / Relocate Existing Pet Waste Stations  2 EA \$ 100.00 \$ 25,000.00  10 Relocate Existing Trees  10 Relocate Existing Trees  11 Relocate Existing Trees  12 EA \$ 300.00 \$ 12,800.00  13 Field Grown Palm Trees (12*-14* zeriscacape, low maint)  14 Shrubbery / Bushes (zeriscape, low maint)  15 Ground Cover (zeriscacape, low maint)  16 Sod  17 Earthwort//Regrading  18 Relocate Irrigation System Controls and Piping  19 Lighting  20 EA \$ 2,750.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$ 1,500.00  \$			7 4 4		A STATE OF THE PARTY OF THE PAR	Control of the Contro
Fergola (Shade Structure)   5	3	Remove Existing Brick Wall				
Bench Seat	4	6' Colored Concrete Walkway**				
Trash Can   5	5	Pergola (Shade Structure)				
8 Statue / Art Piece(s) 9 New / Relocate Existing Pet Waste Stations 2 EA \$ 100.00 \$ 25,000.00  Landscaping 1 Relocate Existing Trees 42 EA \$ 300.00 \$ 12,000.00  11 Relocate Existing Shrub/Plants 9 EA \$ 300.00 \$ 2,700.00  12 Field Grown Palm Trees (12*-14* zeriscacape, low maint) 13 Field Grown Shade Trees (2eriscape, low maint) 14 Shrubbery / Bushes (zeriscacape, low maint) 15 Ground Cover (zeriscacape, low maint) 16 Sod 17 Earthwork/Regrading 18 Relocate Irigation System Controls and Piping 1 LS \$ 1,500.00  18 Colored Concrete Sidewalk 1,700 LF \$ 6.00 \$ 10,200.00  19 Roadway / Sidewalk 1,700 LF \$ 48.00 \$ 31,600.00  20 EA \$ 2,750.00 \$ 25,000.00  21 B' Colored Concrete Sidewalk 1,700 LF \$ 7.00 \$ 11,900.00  22 Curb and Gutter 1,700 LF \$ 7.00 \$ 11,900.00  23 ADA Ramps 10 EA \$ 3,500.00 \$ 2,500.00  24 Roadway Resurfasing 25 Striping and Signage 1 LS \$ 9,612.75 \$ 9,612.75  26 Catch Basin 10 EA \$ 3,500.00 \$ 35,000.00  27 Drainage 28 Exititration Trench 29 Find Trees (200.00 \$ 12,000.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00  1,850.00	6	Bench Seat	10			
New / Relocate Existing Pet Waste Stations   2	7	Trash Can	5	EA		
Relocate Existing Strub/Plants	8		1	EA		
Relocate Existing Trees	9	New / Relocate Existing Pet Waste Stations				
Relocate Existing Trees	150	Landecaping as the second seco		198		
Field Grown Palm Trees (12*-14' zeriscacape, low maint)			42			
Field Grown Palm Trees (12"-14" zeriscacape, low maint)   80   EA   \$ 1,350.00 \$ 108,000.00	11	Relocate Existing Shrub/Plants	9	EA		
Shrubbery / Bushes (zeriscacape, low maint)	12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	80			
15   Ground Cover (zeriscacape, low maint)   600   EA   \$ 8.00   \$ 4,800.00     16   Sod   500   SY   \$ 9.00   \$ 4,500.00     17   Earthwork/Regrading   200   CY   \$ 2.75   \$ 550.00     18   Rejocate Irrigation System Controls and Piping   1   LS   \$ 1,500.00   \$ 1,500.00     19   Lighting   20   EA   \$ 2,750.00   \$ 55,000.00     10   Remove Existing Sidewalk   1,700   LF   \$ 6.00   \$ 10,200.00     11   S   Colored Concrete Sidewalk   1,700   LF   \$ 48.00   \$ 81,600.00     22   Curb and Gutter   1,700   LF   \$ 7.00   \$ 11,900.00     23   ADA Ramps   10   EA   \$ 250.00   \$ 2,500.00     24   Roadway Resurfasing   4,150   SY   \$ 7.50   \$ 31,125.00     25   Striping and Signage   1   LS   \$ 9,612.75   \$ 9,612.75     26   Catch Basin   10   EA   \$ 3,500.00   \$ 35,000.00     27   Drainage Fipe   1,350   LF   \$ 45.00   \$ 60,750.00     28   Exfiltration Trench   500   LF   \$ 150.00   \$ 75,000.00     29   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     1	13	Field Grown Shade Trees (zeriscape, low maint)	80	EA	\$ 650.00	
15   Ground Cover (zeriscacape, low maint)   600   EA   \$ 8.00   \$ 4,800.00     16   Sod   500   SY   \$ 9.00   \$ 4,500.00     17   Earthwork/Regrading   200   CY   \$ 2.75   \$ 550.00     18   Relocate Irrigation System Controls and Piping   1   LS   \$ 1,500.00   \$ 1,500.00     19   Lighting   20   EA   \$ 2,750.00   \$ 55,000.00     10   Roadway / Sidewalk   1,700   LF   \$ 6.00   \$ 10,200.00     11   Sidewalk   1,700   LF   \$ 6.00   \$ 10,200.00     12   2' Curb and Gutter   1,700   LF   \$ 7.00   \$ 11,900.00     23   ADA Ramps   10   EA   \$ 250.00   \$ 2,500.00     24   Roadway Resurfasing   4,150   SY   \$ 7.50   \$ 31,125.00     25   Striping and Signage   1   LS   \$ 9,612.75   \$ 9,612.75     26   Catch Basin   10   EA   \$ 3,500.00   \$ 35,000.00     27   Drainage   1   LS   \$ 9,612.75   \$ 9,612.75     28   Exfiltration Trench   500   LF   \$ 45.00   \$ 60,750.00     29   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     29   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     20   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     20   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     20   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     20   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     20   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     20   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     20   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     21   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     22   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     23   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     24   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     25   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     26   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     27   Remove Exist	14	Shrubbery / Bushes (zeriscacape, low maint)	850	EA	\$ 13.00	
16   Sod   Sy   \$ 9.00   \$ 4,500.00     17   Earthwork/Regrading   200   CY   \$ 2.75   \$ 550.00     18   Relocate Irrigation System Controls and Piping   1   LS   \$ 1,500.00   \$ 1,500.00     19   Lighting   20   EA   \$ 2,750.00   \$ 55,000.00     19   Readvey/Sidewalk   1,700   LF   \$ 6.00   \$ 10,200.00     20   Remove Existing Sidewalk   1,700   LF   \$ 48.00   \$ 81,600.00     21   B' Colored Concrete Sidewalk   1,700   LF   \$ 48.00   \$ 81,600.00     22   Curb and Gutter   1,700   LF   \$ 7.00   \$ 11,900.00     23   ADA Ramps   10   EA   \$ 250.00   \$ 2,500.00     24   Roadway Resurfasing   4,150   SY   \$ 7.50   \$ 31,125.00     25   Striping and Signage   1   LS   \$ 9,612.75   \$ 9,612.75     26   Catch Basin   10   EA   \$ 3,500.00   \$ 35,000.00     27   Drainage Pipe   1,350   LF   \$ 45.00   \$ 60,750.00     28   Exfiltration Trench   500   LF   \$ 150.00   \$ 75,000.00     29   Remove Existing Drainage System   1,850   LF   \$ 7.50   \$ 13,875.00     20   CY   \$ 2.75   \$ 550.00     21   CY   \$ 7.50   \$ 13,875.00     22   CY   \$ 7.50   \$ 13,875.00     23   CY   \$ 7.50   \$ 13,875.00     24   CATC	15	Ground Cover (zeriscacape, low maint)	600			
Miscellaneous   Relocate Irrigation System Controls and Piping   1	16		500	SY	\$ 9.00	\$ 4,500.00
Relocate Irrigation System Controls and Piping   1	17	Earthwork/Regrading	200			
Relocate Irrigation System Controls and Piping   1			1	40 p. 42		
19   Lighting   20   EA   \$ 2,750.00 \$ 55,000.00	18	Relocate Irrigation System Controls and Piping			\$ 1,500.00	\$ 1,500.00
Remove Existing Sidewalk						\$ 55,000.00
Remove Existing Sidewalk	22.11	Roadway / Sidewalk	A. P. C.	社员的连续	<b>建设设置</b>	
21       8' Colored Concrete Sidewalk       1,700       LF       \$ 48.00       \$ 81,600.00         22       2' Curb and Gutter       1,700       LF       \$ 7.00       \$ 11,900.00         23       ADA Ramps       10       EA       \$ 250.00       \$ 2,500.00         24       Roadway Resurfasing       4,150       SY       \$ 7.50       \$ 31,125.00         25       Striping and Signage       1       LS       \$ 9,612.75       \$ 9,612.75         26       Catch Basin       10       EA       \$ 3,500.00       \$ 35,000.00         27       Drainage Pipe       1,350       LF       \$ 45.00       \$ 60,750.00         28       Exfiltration Trench       500       LF       \$ 150.00       \$ 75,000.00         28       Yard Drain       10       EA       \$ 1,200.00       \$ 12,000.00         29       Remove Existing Drainage System       1,850       LF       \$ 7.50       \$ 13,875.00			1,700		\$ 6.00	
22     2' Curb and Gutter     1,700     LF     \$ 7.00     \$ 11,900.00       23     ADA Ramps     10     EA     \$ 250.00     \$ 2,500.00       24     Roadway Resurfasing     4,150     SY     \$ 7.50     \$ 31,125.00       25     Striping and Signage     1     LS     \$ 9,612.75     \$ 9,612.75       26     Catch Basin     10     EA     \$ 3,500.00     \$ 35,000.00       27     Drainage Pipe     1,350     LF     \$ 45.00     \$ 60,750.00       28     Exfiltration Trench     500     LF     \$ 150.00     \$ 75,000.00       28     Yard Drain     10     EA     \$ 1,200.00     \$ 12,000.00       29     Remove Existing Drainage System     1,850     LF     \$ 7.50     \$ 13,875.00	21	8' Colored Concrete Sidewalk	1,700	LF		
ADA Ramps 10 EA \$ 250.00 \$ 2,500.00 24 Roadway Resurfasing 25 Striping and Signage 26 Catch Basin 27 Drainage Pipe 28 Exfiltration Trench 29 Exfiltration Trench 29 Yard Drain 29 Remove Existing Drainage System 20 EA \$ 250.00 \$ 2,500.00 20 Striping and Signage 20 Catch Basin 21 EA \$ 3,500.00 \$ 35,000.00 22 Exfiltration Trench 23 UF \$ 45.00 \$ 60,750.00 24 Yard Drain 25 Toologo \$ 75,000.00 26 Parmove Existing Drainage System 26 Catch Basin 27 Catch Basin 28 Striping and Signage 38 Striping and Signage 39 Striping and Signage 30 Striping and Signage 31 LS \$ 9,612.75 \$ 9,612.75 31,200.00 31,000.00 32,000.00 33,000.00 34,000.00 35,000.00 35,000.00 35,000.00 35,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000.00 36,000			1,700	LF	\$ 7.00	\$ 11,900.00
24       Roadway Resurfasing       4,150       SY       \$ 7.50       \$ 31,125.00         25       Striping and Signage       1       LS       \$ 9,612.75       \$ 9,612.75         For Inage       10       EA       \$ 3,500.00       \$ 35,000.00         27       Drainage Pipe       1,350       LF       \$ 45.00       \$ 60,750.00         28       Exfiltration Trench       500       LF       \$ 150.00       \$ 75,000.00         28       Yard Drain       10       EA       \$ 1,200.00       \$ 12,000.00         29       Remove Existing Drainage System       1,850       LF       \$ 7.50       \$ 13,875.00			10	EA	\$ 250.00	\$ 2,500.00
25       Striping and Signage       1       LS       \$ 9,612.75       \$ 9,612.75         Drainage       1       LS       \$ 9,612.75       \$ 9,612.75         26       Catch Basin       10       EA       \$ 3,500.00       \$ 35,000.00         27       Drainage Pipe       1,350       LF       \$ 45.00       \$ 60,750.00         28       Exfiltration Trench       500       LF       \$ 150.00       \$ 75,000.00         28       Yard Drain       10       EA       \$ 1,200.00       \$ 12,000.00         29       Remove Existing Drainage System       1,850       LF       \$ 7.50       \$ 13,875.00			4,150	SY	\$ 7.50	
Drainage         Drainage         Strict Name         Strict Name <th< td=""><td>25</td><td>Striping and Signage</td><td>1</td><td></td><td>\$ 9,612.75</td><td></td></th<>	25	Striping and Signage	1		\$ 9,612.75	
26       Catch Basin       10       EA       \$ 3,500.00       \$ 35,000.00         27       Drainage Pipe       1,350       LF       \$ 45.00       \$ 60,750.00         28       Exfiltration Trench       500       LF       \$ 150.00       \$ 75,000.00         28       Yard Drain       10       EA       \$ 1,200.00       \$ 12,000.00         29       Remove Existing Drainage System       1,850       LF       \$ 7.50       \$ 13,875.00	1714	Drainage success	14 Val.	W/25/V244	ACTIONAL	**************************************
27     Drainage Pipe     1,350     LF     \$ 45.00     \$ 60,750.00       28     Exfiltration Trench     500     LF     \$ 150.00     \$ 75,000.00       28     Yard Drain     10     EA     \$ 1,200.00     \$ 12,000.00       29     Remove Existing Drainage System     1,850     LF     \$ 7.50     \$ 13,875.00			10	EA	\$ 3,500.00	\$ 35,000.00
28 Exfiltration Trench 500 LF \$ 150.00 \$ 75,000.00 28 Yard Drain 10 EA \$ 1,200.00 \$ 12,000.00 Permove Existing Drainage System 1,850 LF \$ 7.50 \$ 13,875.00			1,350	LF	\$ 45.00	
28 Yard Drain 10 EA \$ 1,200.00 \$ 12,000.00 29 Remove Existing Drainage System 1,850 LF \$ 7.50 \$ 13,875.00	28	Extiltration Trench		LF	\$ 150.00	\$ 75,000.00
29 Remove Existing Drainage System 1,850 LF \$ 7.50 \$ 13,875.00				EA	\$ 1,200.00	
						\$ 13,875.00
				en a major i a se sul		
			112 11 Sec. 31	The Marie State	Total:	\$ 1.45 - 992.458

Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees

Note: Sewer Not included because it is owned by the City of Pompano Beach

See Alternate Walkway Options for Additional Materials and their Costs

## PRELIMINARY ENGINEER'S OPINIC Chen No: 120.001 PROBABLE CONSTRUCTION COST Phase: Preliminary Design Evaluation

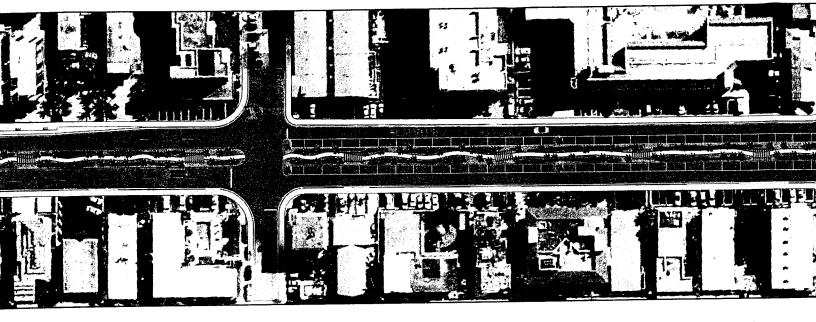
By: SB

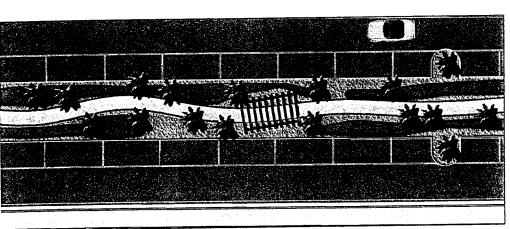


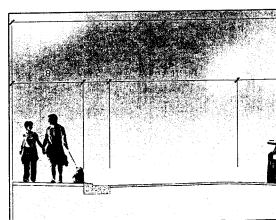
#### El Mar Drive Cost Alternatives **Alternate Path Options** Submitted July 24th, 2009 by Chen and Associates

NO.	Description	Qty	Unit	Unit Price	Total
1.79	Walkway Material Options	100	100	12 4 2 3	2:12:23:47 (exchange)
1	Concrete (stangard grey)*	2,000	ĻF	\$ 13.50	\$ 27,000.00
2	Colored Concrete (LBTS Std.)*	2,000	LF	\$ 35.00	
3	Pavers	2,000	LF	\$ 50.00	\$ 100,000.00
	Colored Stamped Concrete	2,000	LF	\$ 55.00	\$ 110,000,00
17.7		E STATE	Same Carlotte	14 4 4 4 14 L	AND THE RESERVED

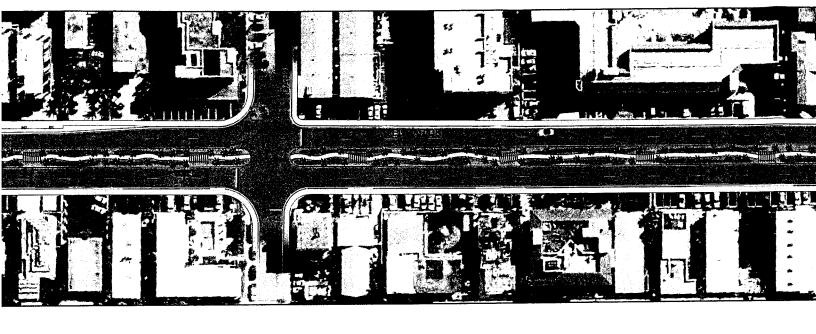
Assumed 6' Width Indicates High Maintenance

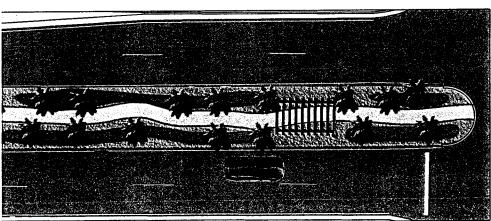


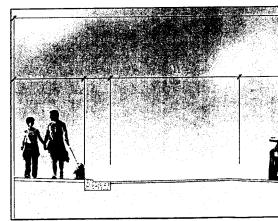




Lauderdale-by-the-Sea
El Mar Drive
One Lane Option



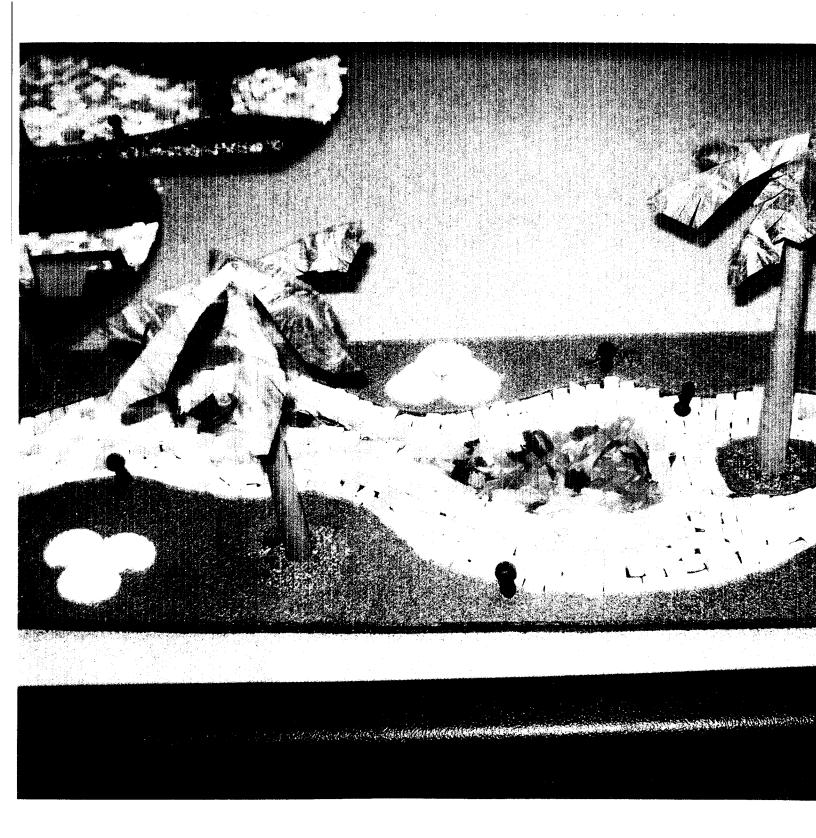


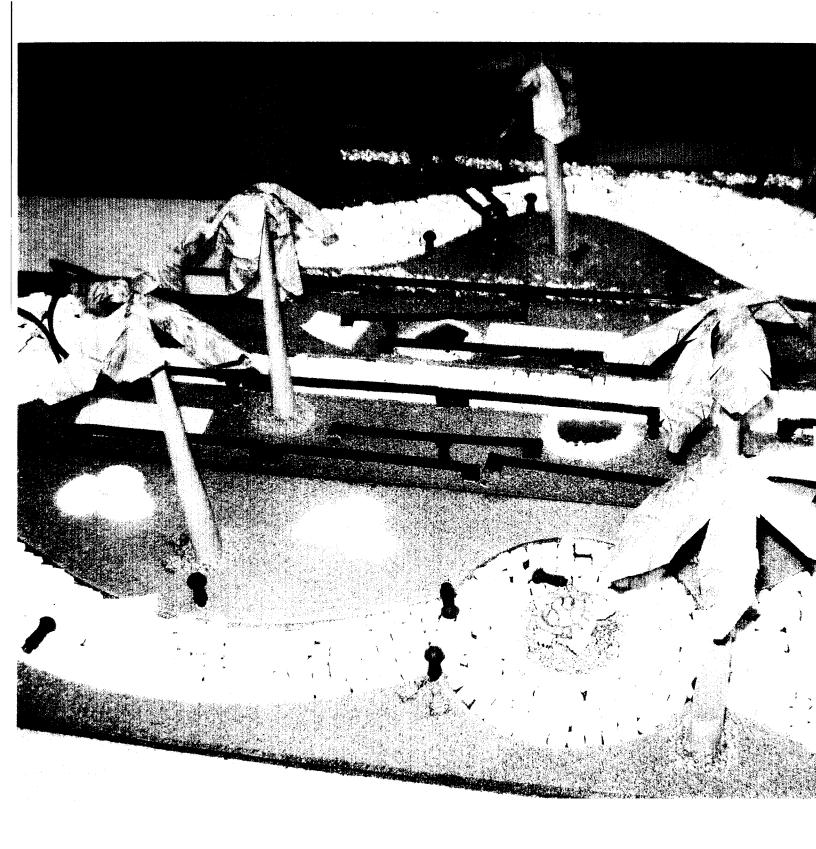


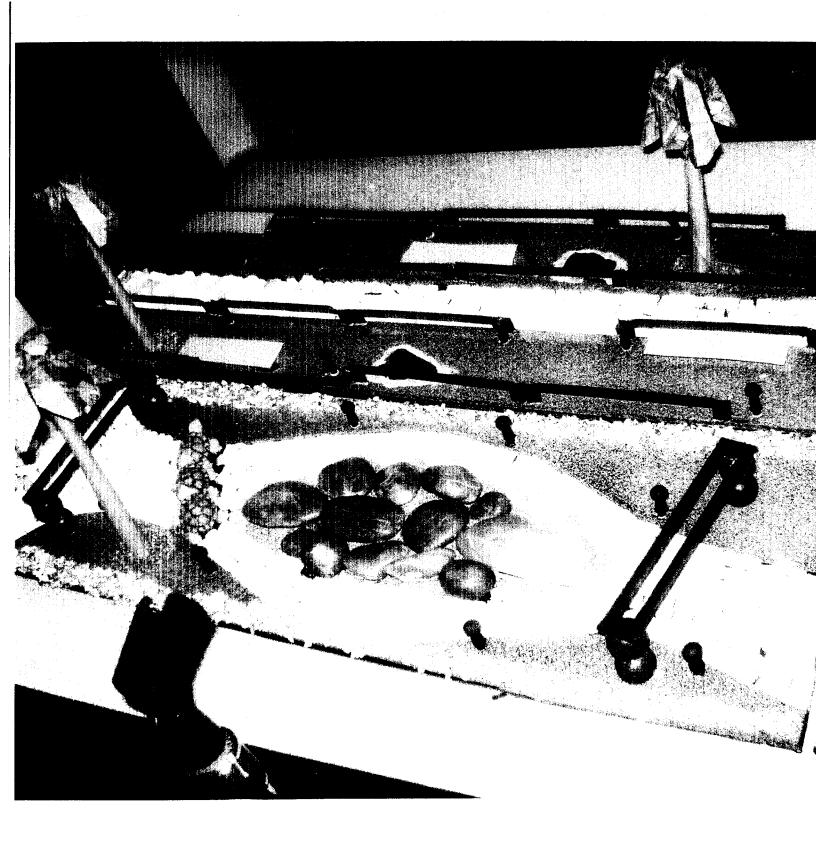
Lauderdale-by-the-Sea
El Mar Drive
Two Lane Option

# 1<sup>st</sup> PLACE MARIA GALINDO

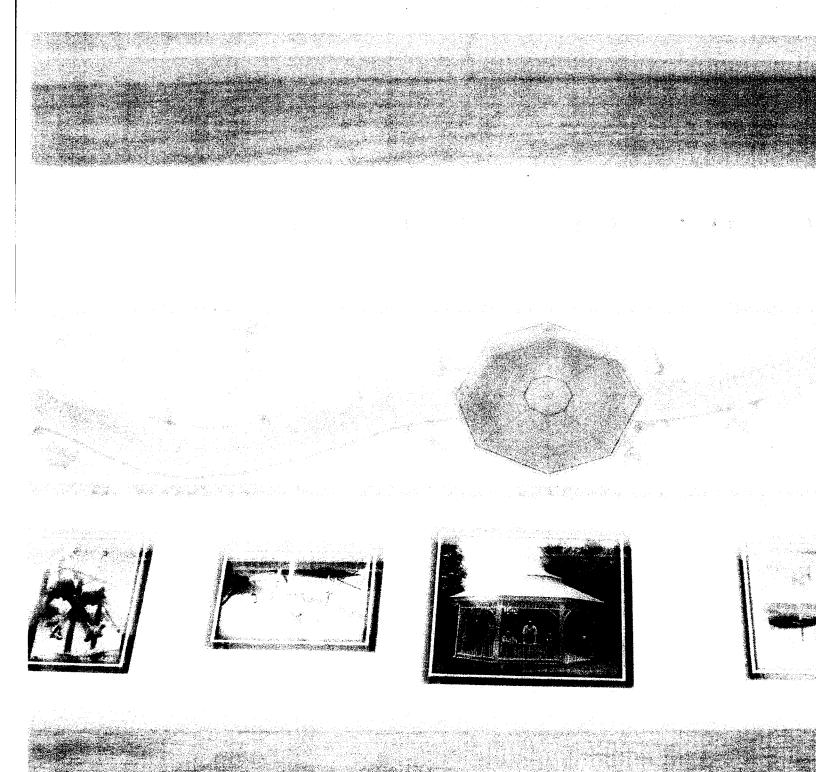
### MARIA GALINDO AND ALBERTO RONAN

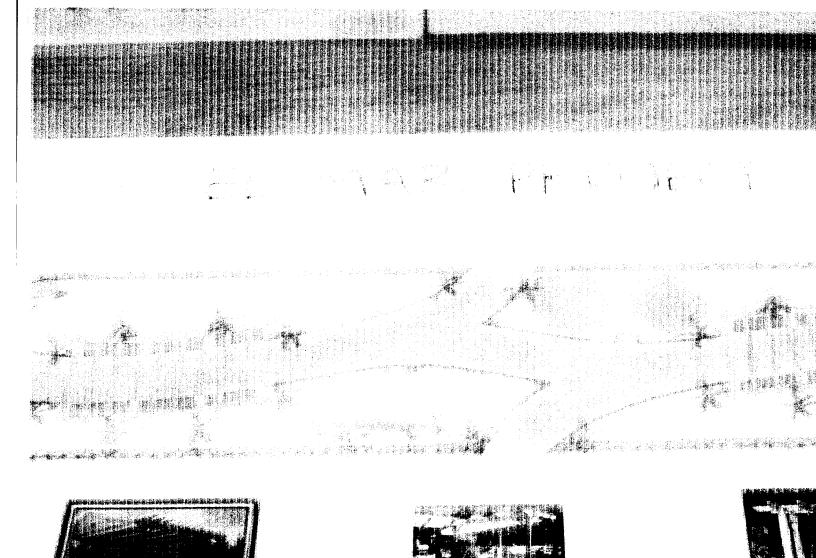




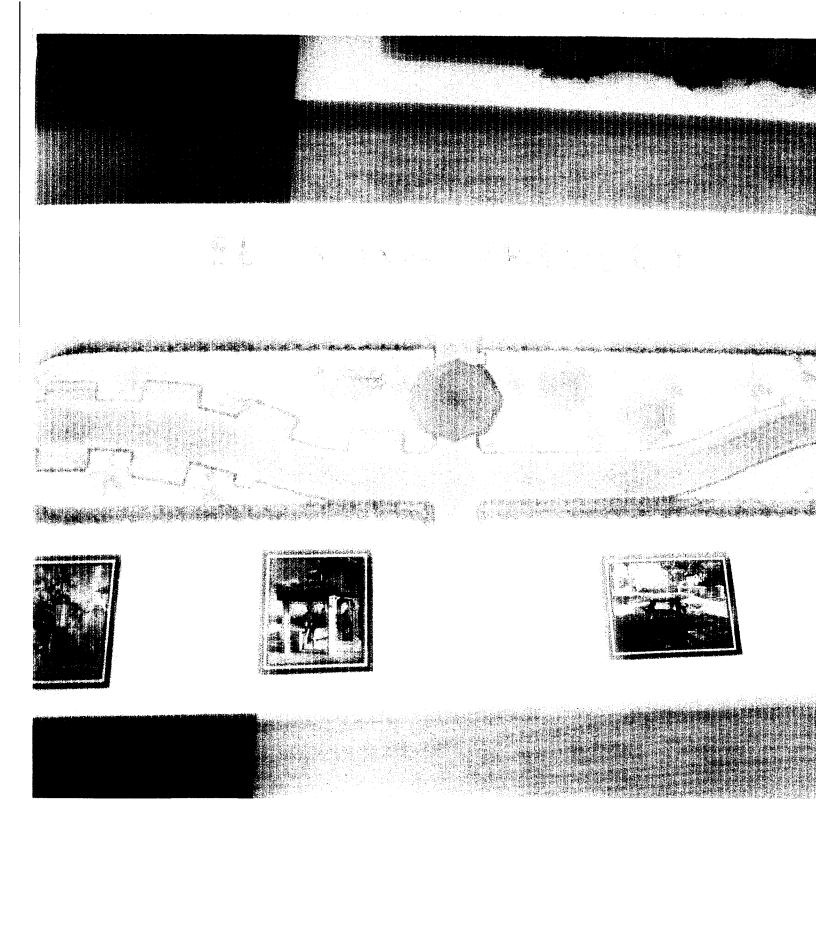


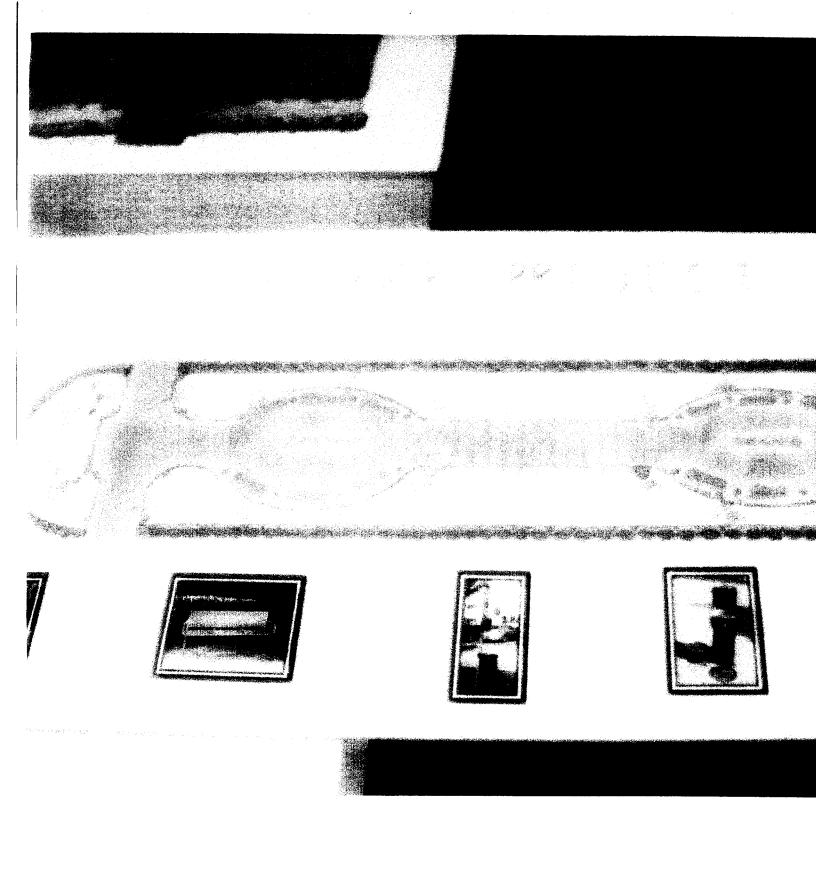
# 2<sup>nd</sup> PLACE ISABELLA SERNA











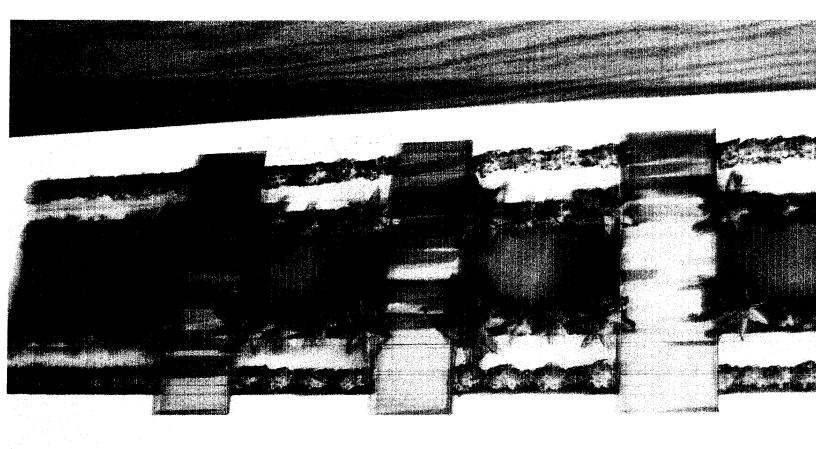
# 3<sup>rd</sup> PLACE WENDY THULEN



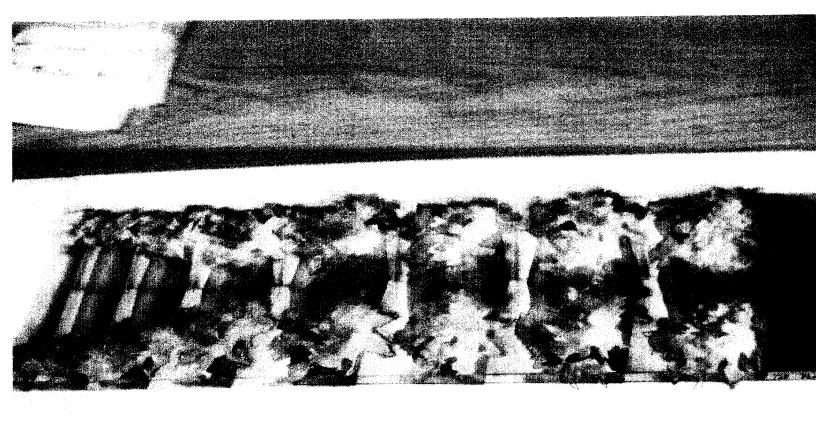
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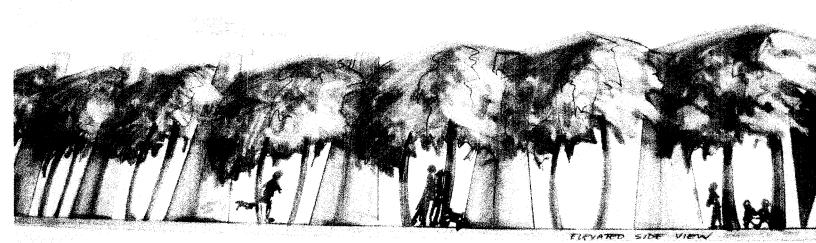


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